

SIGNAL CORPS
REPAIR STANDARD

Amendment 1, 17 May 1961

NO. REP-408
ISSUE NO. 1

REP-408

REPAIRED EQUIPMENT STANDARD

FOR

HEAD AND CHEST SETS
HS-17, HS-19, HS-25 AND HS-27

PROJECT 4422D

17 March 1953

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SIGNAL CORPS ENGINEERING LABORATORIES

FORT MONMOUTH, N. J.

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For
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Add Following To Paragraph 1VB:

I-142 Dial Settings

		Test Clip				Dial Control					Equalizer
	Test	Rec	Com	Tran	D1	D2	D3	D4	D5		
H-66/U	Trans		C	T	3		3		1	IN	
	Rec	R	C			2		6	1	OUT	

		Key Operation					Meter Reading	
	Test	Keys 1	Not 2	Listed 7	Unoperated, 8 9	L-Left	R-Right	
H-66/U	Trans	LBPE	RCT	AC	Trans Opr	R	-6db	
	Rec	LBPE	RCT	AC	REC Opr	R	-0db	

AEH/kmg

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Signal Corps Repair Standard No. REP-408 is a general standard and is subsidiary to any individual standard prepared. No individual standard is to be considered complete in itself, but is to be used in conjunction with Signal Corps Repair Standard No. REP-1001, "General Standards for Repairing Signal Equipment."

Reports of any discrepancies or any other constructive comments bearing upon this repair standard are invited. A series of Comments and/or letter pages will be found in the back of this standard which are designed to facilitate reporting any inaccuracies noted. All such reports, comments or requests for additional copies should be addressed to:

COMMANDING GENERAL
Signal Corps Engineering Laboratories, SICEL-P40-3
Fort Monmouth, New Jersey

PREFACE

Signal Corps Repair Standards (formerly Signal Corps Repaired Equipment Requirements) are prepared by the Maintenance Engineering Branch, Procurement-Maintenance Engineering Division, Signal Corps Engineering Laboratories and cover various items of signal equipments which are subject to repair, test and inspection. These repair standards are documents which set forth the specific repair requirements and test standards to be applied to the individual equipments being repaired and tested.

Signal Corps Repair Standards are prepared for the specific use of the fifth echelon Signal Repair Shops in repairing and determining the quality and acceptability of repaired signal equipments covered by these standards. The use of Signal Corps Repair Standards is recommended as a guide and reference for any agency having occasion to repair, test or inspect an item of signal equipment for which a repair standard has been prepared.

Signal Corps Repair Standard No. REP-1001 is a general standard and is subsidiary to any individual standard prepared. No individual standard is to be considered complete in itself, but is to be used in conjunction with Signal Corps Repair Standard No. REP-1001, "General Standards for Repaired Signal Equipment."

Reports of any discrepancies or any other constructive comments bearing upon this repair standard are invited. A series of Comments and/or Notes pages will be found in the back of this standard which are designed to facilitate reporting any inaccuracies noted. All such reports, comments or requests for additional copies should be addressed to:

COMMANDING GENERAL
Signal Corps Engineering Laboratories, SIGEL-PMM-3
Fort Monmouth, New Jersey

REPAIRED EQUIPMENT STANDARD
FOR
HEAD AND CHEST SETS
HS-17, HS-19, HS-25 AND HS-27

I. STATEMENT COVERING APPLICABILITY

This repair standard covers inspection requirements to be used in determining the quality and acceptability of repaired Head and Chest Sets HS-17, HS-19, HS-25 and HS-27. Its use is mandatory in the Maintenance Divisions of Signal Depots and the Signal Sections of General Depots. The use, insofar as limitations of test and calibration equipment permit, is highly recommended for all Signal Repair organizations.

A. Safety Precautions

1. Exercise Safety Precautions at all times.
2. Select and apply the proper tools.
3. Avoid makeshift methods.
4. Don't do damage to yourself or to the equipment.
5. BE CAREFUL

II. APPLICABLE REFERENCES

A. Repair Standards. Applicable paragraphs of the repair standard listed below form a part of this standard:

Title	Number
1. General Standards for Repaired Signal Equipment	REP-1001

III. TEST EQUIPMENT

The following equipments, or suitable equivalents of known accuracy, will be employed in determining compliance with the requirements of this Signal Corps Repair Standard and will be capable of conforming to their respective Repair Standards:

Equipment	Stock Number	Number Used	REP
1. Test Set I-142	3F4142	1	172

IV. REQUIREMENTS

A. Insulation Resistance. The insulation resistance between individual conductors and the headset or chest-set frame shall be at least 1 megohm. (When tested on Test Set I-142, a reading of 4 on the DC scale corresponds to approximately 1 megohm. A lower reading indicates a higher insulation resistance).

B. Transmitter and Receiver Tests. Transmitters and receivers shall meet the following minimum requirements when measured on Test Set I-142:

I-142 DIAL SETTINGS

TEST	TEST CLIP			DIAL CONTROL					EQUALIZER
	REC	COM	TRAN	D1	D2	D3	D4	D5	
HS-17 TRANS		C	T	3		3		1	IN
HS-27 REC	R	C			1		6	1	-
HS-19 TRANS		C	T	3		3		1	IN
REC	R	C			2		6	1	-
HS-25 TRANS	R	C			4		6	1	
REC	R	C			4		6	1	

TEST	KEY OPERATION						METER READING	
	Keys not listed unoperated						L=Left	R=Right
	1	2	7	8	9			
HS-17 TRANS	LBPE	RCT	AC	TRANS	OPR	R	-6 db	
HS-27 REC	LBPE	RCT	AC	REC	OPR	R	-10 db	
HS-19 TRANS	LBPE	RCT	AC	TRANS	OPR	R	-6 db	
REC	LBPE	RCT	AC	REC	OPR	R	-10 db	
HS-25 TRANS	LBPE	RCT	AC	REC	OPR	R	-6 db	
REC	LBPE	RCT	AC	REC	OPR	R	-10 db	

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